

SCDXC Newsletter



The Southern California DX Club is a group of dedicated men and women active in the amateur radio community who enjoy communicating over the air with other radio amateurs around the world.

The SCDXC strongly supports the DX Code of Conduct. Please visit their website:

www.dx-code.org

The SCDXC newsletter is published monthly and released to club members around the first of each month. Amateur and DX related letters, news and pictures are welcome and will be published as time and space permit.

Articles will be republished with recognition of the author and the club. Re-use of copyrighted materials require the original author's permission.

Any questions regarding this newsletter or its articles should be addressed to the Editor, Bill, N6RV at:

n6rv@scdxc.org

Club meetings are held on the second Thursday of the month at 7:00 PM except April, July, and December.

Please check the club web site for events and details at:

<http://www.scdxc.org>

If you are in the area please say hello on our repeater:

W6AM/R 145.48, (-) PL 100.0

In our January 2024 Issue...



Announcements	2
2023 Christmas / Chanukah Party	3
From the Desk of the President, W6FL	4
2024 SCDXC Board of Directors	4
Club Calendar	4
Vice President's Corner, N6QQ	5
Rumors on the Band	6
DXCC & WAZ Standings	7
2023 Get Schroeder Contest	8
What Did We Really Work?	9
Who's on 6?	16
Deleted DXCC Entities: #36 & #37 - Papua & New Guinea.....	17
Looking for DX in Odd Other Places	19
2024 IDXC Visalia	20
DX Resources	21
Visit (and support) our Advertisers.....	22



*If you need him
get in there and*



January Club Meeting is Live!

January 11th 7 PM at WEMS
Come Join Us!

January Presentation:
Radio Astronomy
Dennis Kidder, W6DQ

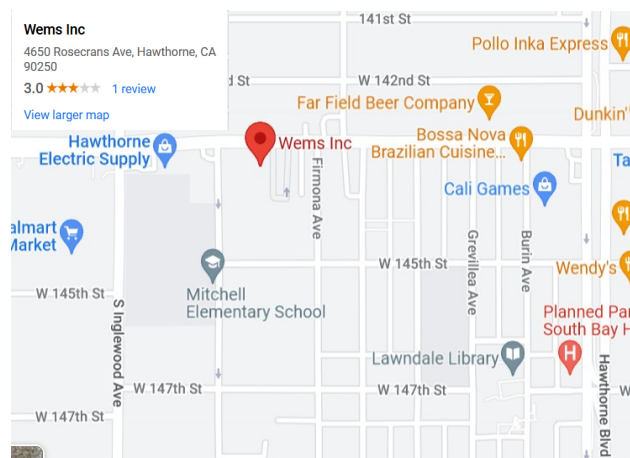


The January meeting will be live and on Zoom. You can participate at the link below:

[SCDXC Club Meeting](#)

If you have difficulty with this link try downloading the Zoom app and run this session:

Meeting ID: 819 8565 2659
Passcode: 154024



2024 Dues

Hello SCDXC members! Another year has rolled by and you know what that means... membership dues!

The 2024 membership dues are now due. You can go to our website to renew your membership:

<http://www.scdxc.org/membership.html>

2023 Christmas / Chanukah Party



**There is room for you next year!!!!
Come and join the fun!!!!**

Thank you Steve, K0XP, for taking the great pictures.

2024 Board of Directors

President

Howard Elovitz, W6FL

Vice President

John Schroeder, N6QQ

Treasurer

Bill Kendrick, N6RV

Secretary

Bill Erickson, N6MXU

Director

Mel Hughes, K6SY

Director

Kevin Ngo, K6NGO

Director

John Schroeder, N6QQ

APPOINTEES

Repeater Chair

Chip Angle, N6CA

Newsletter Editor

Bill Kendrick, N6RV

Webmaster

From the Desk of the President Howard Elovitz, W6FL

We had a good turnout for our SCDXC Holliday Party. Great location and food. It was nice to see everyone having a good time.

Despite the Solar Flares and blackouts, DXing has been fun with all expeditions and other activities on going.

Next year as I move into the SCDXC Presidents role, I will continue to help get presentations that will cover a wide variety of topics.

Our 1st Quarter is set:

January	11 th	Radio Astronomy
February	8 th	2023 DX Year in Review
March	14 th	Solaredge - new product designs to eliminate solar panel RFI.
April	12th-14th	2024 IDXC Visalia

Till next month Best of DX and I wish all of you and your family the best for the holiday season and a Happy, Healthy New Year.

Till next month Best of DX.
73 and Good DXing!
Howard W6FL

W6FL@scdxc.org



Howard, W6FL



January Calendar

January	1	Straight Key Night
January	11	Regular Meeting 7 PM at WEMS
January	13	YB DX Contest
January	13	North American QSO Party CW
January	14	NRAU-Baltic Contest SSB
January	20	Hungarian DX Contest
January	20	North American QSO Party SSB
January	26	CQ 160-Meter Contest CW

For more contest Info see:

<http://www.hornucopia.com/contestcal/contestcal.html>

VP Corner January 2024

John Schroeder, N6QQ

Welcome to 2024.

It's our turn to host the Visalia Convention this year. We have filled the volunteer committee and they are working hard to make this event one to remember. It is a joint effort with volunteers from NCDXC, SDDXC, and, of course, SCDXC. We have come together in force! Make sure you register soon! The 4 months running up to this event zip by!

Every one had a good time at our Christmas / Chanukah party. Thanks to Bill, N6RV, Larry, K6YUI and Howard, W6FL for making it a real success. Thank you everyone for attending. It is a reminder of all the great events, meetings, and parties of the past. In particular, thanks to all the members who travelled pretty far, Cathy, K6VC, and Steve, K0XP, as well as others. By-The-Way, Steve, K0XP, went home with the FTDX-10 from the free give away. Everyone who attended had an equal chance at winning. He also snagged the Yaesu VX-6R from the regular raffle which was donated by Wayne, W6IRD. Steve is a pretty happy camper!

Band conditions are looking great this year. Worldwide 294 of the 340 entities were on the air and worked. SCDXC members worked 282, and members in Southern California worked 280. This might be a record year.

Some experts are saying 2024 will be the top of this cycle, while others are staying with 2025. There have been a huge number of solar events in December, nevertheless, working VU7A, VU4N, and many other rare ones on many bands and many paths went on uninterrupted!

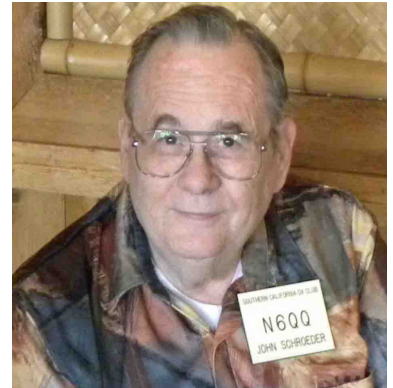
Lets hope for a great 2024 full of family, joy, and.... LOTS OF DX! We will see everyone at our January Meeting.

73 de John, N6QQ
Vice President, SCDXC

N6QQ@scdxc.org



***Every DXpedition is the
WORST EVER....***



Rumors on the Band

The beginning of the year is starting off with a bang. We have 3 rare activations and 10 other ones plus a number of other operations.

QTH	Call	Start Date	End Date	Information
St. Vincent	J8TT	Now	5-Jan	PA2LO 40-6m SSB CW Digi
Rodrigues I	3B9AT	Now	6-Jan	IK3ZAQ IV2JVJ 40- 10m CW SSB Digi
Fr. Guiana	TO2FY	Now	16-Jan	F4GPK HF SSB
Svalbard	JW	1-Jan	5-Jan	M0PLX 160-10m SSB
Montserrat	VP2MDX	11-Jan	30-Jan	W2APF HF
Palau	T8	12-Jan	18-Jan	JH6WDG (T88AQ) JA6KYU (T88HS) JR6DRH (T88RH) JA6EGL (T88SM) 160-10m CW SSB FT8
Ethiopia	ET3AA	12-Jan	20-Jan	W9XY K4ZW HF
St.Helena	ZD7Z	16-Jan	4-Feb	IV3FSG 160-6m CW SSB FT8
Clipperton I	TX5S	18-Jan	1-Feb	International Team 160-6m SSB CW RTTY FT8
Maldives	8Q7WR	24-Jan	6-Feb	G3WRO 40-10m SSB
Yemen	7O2WX	25-Jan	12-Feb	OK2WX 160 80 40m
Pitcairn	VP6/G3YBO	28-Jan	28-Jan	G3YBO 17-10m SSB

ClubLog Top 50 Most Wanted Entities

- 1

P5

DPRK (NORTH KOREA)
- 2

BS7H

SCARBOROUGH REEF
- 3

CE0X

SAN FELIX ISLANDS
- 4

BV9P

PRATAS ISLAND
- 5

KH7K

KURE ISLAND
- 6

KH3

JOHNSTON ISLAND
- 7

FT/G

GLORIOSO ISLAND
- 8

3Y/P

PETER 1 ISLAND
- 9

FT5/X

KERGUELEN ISLAND
- 10

YV0

AVES ISLAND
- 11

3Y/B

BOUVET ISLAND
- 12

ZS8

PRINCE EDWARD & MARION ISLANDS
- 13

KH4

MIDWAY ISLAND
- 14

VK0M

MACQUARIE ISLAND
- 15

PY0S

SAINT PETER AND PAUL ROCKS
- 16

PY0T

TRINDADE & MARTIM VAZ ISLANDS
- 17

KP5

DESECHEO ISLAND
- 18

VP8S

SOUTH SANDWICH ISLANDS
- 19

KH5

PALMYRA & JARVIS ISLANDS
- 20

ZL9

NEW ZEALAND SUBANTARCTIC ISLANDS
- 21

FK/C

CHESTERFIELD ISLANDS
- 22

VK0H

HEARD ISLAND
- 23

EZ

TURKMENISTAN
- 24

FT/T

TROMELIN ISLAND
- 25

YK

SYRIA
- 26

ZL8

KERMADEC ISLAND
- 27

KH8/S

SWAINS ISLAND
- 28

VP8G

SOUTH GEORGIA ISLAND
- 29

XF4

REVILLAGIGEDO
- 30

FT5/W

CROZET ISLAND
- 31

KH1

BAKER HOWLAND ISLANDS
- 32

KH9

WAKE ISLAND
- 33

SV/A

MOUNT ATHOS
- 34

JD/M

MINAMI TORISHIMA
- 35

VK9M

MELLISH REEF
- 36

FT/J

JUAN DE NOVA, EUROPA
- 37

FO/C

CLIPPERTON ISLAND
- 38

Ti9

COCOS ISLAND
- 39

HK0/M

MALPELO ISLAND
- 40

KP1

NAVASSA ISLAND
- 41

VK9W

WILLIS ISLAND
- 42

FT5Z

AMSTERDAM & ST PAUL ISLANDS
- 43

H40

TEMOTU PROVINCE
- 44

ZD9

TRISTAN DA CUNHA & GOUGH ISLANDS
- 45

7O

YEMEN
- 46

VP8O

SOUTH ORKNEY ISLANDS
- 47

XZ

MYANMAR
- 48

ZK3

TOKELAU ISLANDS
- 49

3C0

ANNOBON
- 50

3D2/C

CONWAY REEF

CADXA Most Wanted DXCC Entities

ClubLog Most Wanted DXCC Ranking



DX Standings

Thanks to Bill, N6WS, Kent, N6WT, Bill, N6RV, Bob, N6RW, and Don, NK6A for their updates!

If you are a new member please join ClubLog and then sign up for the Southern California DX Club. If you need help email me. Send any updates to:

N6RV@SCDXC.org

SCDXC WAZ and DXCC Standings

The first WAZ column is the confirmed zone count on 10 bands 160 - 6 (less 60 meters). The second column is the regular 5BWAZ confirmed count. The following are the codes that follow the two columns and indicate the awards:

M	Mixed
P	Phone
C	CW
R	RTTY

SCDXC Lifetime Standings									
Rank	Call	Current	Total	Slots	Rank	Call	Current	Total	Slots
1	W6KH	340	389		54	N6VNI	312	314	1514
2	JA1BK	340	383	3232	55	N6WT	311	311	2083
3	K6YRA	340	378	2777	56	W6HB	311	311	1029
4	OH2BH	340	378	0	57	N6GP	299	314	1583
5	N0FW	340	372	2978	58	K6IRD	292	302	649
6	K6YUI	340	366	2608	59	N6PM	290	291	1861
7	NS6C	340	361	2615	60	W6ZL	287	291	1074
8	W6SR	340	359	2799	61	WA6HXM	275	275	
9	K6FG	340	357	2772	62	WA6WXD	274	274	
10	K6GXO	340	355	2633	63	N3BKV	269	269	
11	K5KT	340	355		64	K6VC	264	267	
12	W8DX	340	353	2449	65	KJ6HZ	247	252	
13	W6TK	340	351	1781	66	N6AA	247	247	
14	W6VX	340	349	2772	67	W6KC	246	248	743
15	N6HC	340	349	2377	68	KQ6K	243	244	
16	W6KK	340	349	1921	69	NE6V	239	239	917
17	K6ND	340	348	2790	70	K6JEY	234	234	
18	WA5VGI	340	348	2788	71	N6HE	229	238	746
19	KJ6Y	340	348	1439	72	N6VOH	222	251	
20	N6PEQ	340	347	2040	73	W6YLZ	219	220	
21	WA6WZO	339	357		74	K6AFW	204	204	917
22	N6RV	339	356	2509	75	WB6DJI	200	200	589
23	N6QQ	339	356	2315	76	AA6DW	196	202	402
24	N6WS	339	351	2658	77	K0XP	170	171	
25	K6RO	339	348	2363	78	N6LL	169	169	
26	KR6C	339	345	2135	79	W6GA	169	168	
27	W6TJI	338	355		80	KF6I	166	166	200
28	W6IRD	338	354		81	KC6TOD	166	166	
29	W6RW	338	352	2295	82	KK6M	162	192	
30	W6FL	338	352	1610	83	K7LA	160	160	466
31	N6HY	338	346	2424	84	K6FOD	154	154	
32	N6MG	338	338		85	K9TAD	150	150	223
33	N6RW	337	372	2773	86	W6QE	149	149	365
34	W6OU	337	356	1599	87	WC2S	146	146	
35	AI6Z	336	349	2189	88	AB9A	141	141	224
36	N6IC	336	347	0	89	NZ6L	137	178	158
37	K6JW	335	341	1337	90	N6CA	133	133	386
38	N7NR	335	354	1288	91	K6NGO	130	130	
39	SM5GMZ	335	346	2454	92	K6MKL	126	126	
40	K4ST	335	339	2065	93	WD6Y	125	125	274
41	K6DW	334	343	302	94	AB6A	109	109	287
42	K2IXQ	334	339	1794	95	N6PCD	105	105	246
43	N6MXU	333	337	1666	96	K6BBC	103	117	216
44	W6SW	331	339	540	97	N6YQ	100	128	
45	K6SY	331	337	1157	98	WA6MEM	100	100	
46	W6DR	331	336	1889	99	W6CCC	95	95	211
47	K4SX	331	335	1782	100	K6PGH	63	63	
48	N6AX	330	336	1679	101	W6MPB	61	61	
49	AA6PW	330	331	1775	102	K6LAC	46	46	
50	K7MY	320	324	1281	103	K6YIC	43	43	92
51	NK6A	313	316	957	104	NY6Y	28	28	
52	AC6MW	313	315		105	KJ6YL	14	14	
53	N6DHZ	312	318	1440	106	KC6CQD	1	1	

WAZ Standings				
Rank	Call	11B	5B	Awards
1	N0FW	424	200	M/P/C/R/5
2	K6ND	415	200	M/5
3	WA5VGI	416	200	M/P/C/R/5
4	N6WS	414	200	M/P/C/R/5
5	W6SR	384	200	M/P/C/5
6	K6FG	376	200	M/P/C/R/5
7	SM5GMZ	373	200	M/P/C/5
8	W8DX	357	200	M/5
9	N6AW	355	200	M/P/C/5
10	K6YUI	353	200	M/P/C/R/5
11	W6RW	344	200	M/P/C/5
12	K6YRA	337	200	P/5
13	W6VX	352	199	M/P/C
14	W6TK	369	198	
15	K6GXO	358	198	M
16	N6HY	365	196	M/P/C
17	N6RW	408	198	
18	N6WT	385	195	
19	N6RV	383	195	
20	K6RO	379	195	M/P/C
21	W6FL	253	195	
22	AI6Z	321	194	
23	N6PM	374	193	
24	NS6C	368	193	M/P/C/R/5
25	KR6C	342	192	
26	N6QQ	343	189	
27	N6PEQ	338	188	
28	W6DR	348	187	
29	W6OU	307	186	
30	N6GP	313	185	
31	K4ST	310	185	
32	W6KK	307	185	
33	N6DHZ	295	182	
34	AA6PW	298	181	
35	N6VNI	291	181	
36	K6SY	299	178	
37	KJ6Y	237	173	
38	N6HE	253	168	
39	W6ZL	253	166	M/P/C/R
40	W8GJK	301	162	
41	K6JW	244	158	
42	NK6A	290	157	
43	W6KC	217	156	
44	W6YLZ	151	288	
45	K7MY	258	159	
46	N6MG	241	150	
47	NE6V	256	149	
48	K6AFW	218	149	
49	KK6M	173	140	
50	K0XP	171	140	
51	AC6MW	210	133	
52	K6IRD	220	130	
53	W6SW	154	126	M/P
54	W6IRD	102	112	
55	WD6Y	163	104	
56	K6VC	145	96	
57	N6PCD	144	92	
58	K6DW	143	118	
59	WC2S	201	115	
60	K6NGO	191	110	
61	K6FOD	160	106	
62	K9TAD	105	91	
63	NZ6L	104	82	
64	K6PGH	45	42	
64	N6HC	17	13	
65	WB6DJI	11	8	



2023 Get Schroeder Contest

1A0	4S	7Q	A3	CE9	E7	FK	GI	HS	KH0	LZ	PJ7	T2	TY	VK9L	VU4	YV0
1S	4U1TU	7X	A4	CN	EA	FK/C	GJ	HV	KH1	OA	PY	T30	TZ	VK9M	VU7	Z2
3A	4U1UN	8P	A5	CO	EA6	FM	GM	HZ	KH2	OD	PY0F	T31	UA	VK9N	XE	Z3
3B7	4W	8Q	A6	CP	EA8	FO	GU	I	KH3	OE	PY0S	T32	UA0	VK9W	XF4	Z6
3B8	4X	8R	A7	CT	EA9	FO/A	GW	IS0	KH4	OH	PY0T	T33	UA2	VK9X	XT	Z8
3B9	5A	9A	A9	CT3	EI	FO/C	H4	J2	KH5	OH0	PZ	T5	UJ	VP2E	XU	ZA
3C	5B	9G	AP	CU	EK	FO/M	H40	J3	KH6	OJ0	R1F	T7	UN	VP2M	XW	ZB2
3C0	5H	9H	BS7H	CX	EL	FP	HA	J5	KH7K	OK	S0	T8	UR	VP2V	XX9	ZC4
3D2	5N	9J	BU	CY0	EP	FR	HB	J6	KH8	OM	S2	TA	V2	VP5	XZ	ZD7
3D2/C	5R	9K	BV9P	CY9	ER	FS	HB0	J7	KH8S	ON	S5	TF	V3	VP6	YA	ZD8
3D2/R	5T	9L	BY	D2	ES	FR/G	HC	J8	KH9	OX	S7	TG	V4	VP6/D	YB	ZD9
3DA	5U	9M2	C2	D4	ET	FR/J	HC8	JA	KL7	OY	S9	TI	V5	VP8	YI	ZF
3V	5V7	9M6	C3	D6	EU	FR/T	HH	JD1/M	KP1	OZ	SM	TI9	V6	VP8/G	YJ	ZK3
3W	5W	9N	C5	DL	EX	FT5W	HI	JD1/O	KP2	P2	SP	TJ	V7	VP8/H	YK	ZL
3XA	5X	9Q	C6	DU	EY	FT5X	HK	JT	KP4	P4	ST	TK	V8	VP8/O	YL	ZL7
3Y/B	5Z	9U	C9	E3	EZ	FT5Z	HK0/M	JW	KP5	P5	SU	TL	VE	VP8/S	YN	ZL8
3Y/P	6W	9V	CE	E4	F	FW	HK0/S	JX	LA	PA	SV	TN	VK	VP9	YO	ZL9
4J	6Y	9X	CE0X	E5/N	FG	FY	HL	JY	LU	PJ2	SV/A	TR	VK0H	VQ9	YS	ZP
4L	7O	9Y	CE0Y	E5/S	FH	G	HP	K	LX	PJ4	SV5	TT	VK0M	VR	YT	ZS
4O	7P	A2	CE0Z	E6	FJ	GD	HR	KG4	LY	PJ5	SV9	TU	VK9C	VU	YV	ZS8

Chart Legend	
White / Green	Entity Worked This Year by a Member
Black / White	Very Active Entity Not Yet Worked
Black / Blue	Entity with Announced DXpedition
Black / Yellow	Rarely Active Entity Not Yet Worked
Black / Red	Inactive Entity
	Deleted Entity

We are still tracking the 2023 Get Schroeder Contest. Next month we will pick up the last few days of 2023 and also start the 2024 contest.

The highest number worked by a ClubLog member is 283, IK0OZD. Peter, N0FW is at #5 with 279 worked, 3rd highest count, and Bill, N6RV at #11 with 278, 4th highest count. Close behind at #13 is Larry, K6RO, with 277, 5th highest count, Dick, W6TK, at #22 with 275, 7th highest count, Bill, N6WS, at #38 with 272, 10th highest count, Kent, N6WT, at #44 with 271, 11th highest count, and Bob, N6RW at 50th, with 270, 12th highest count. So a mere 9 countries separates 9 club members. It says that conditions were so good the West Coast had a good shot for the top! All the aforementioned are 14 to 23 entities above the 2022 SCDXC leader. In fact the SCDXC top 10 beat the 2023 leader's score! It has been a good year!

Look at all the members who worked DXCC this year, 34!!! Look at all the members who broke 200, 19!!! That included Jim, N6DZH, with no FT8!

ClubLog Worked Not SCDXC

5N	EZ	S9	YA
5T	KH9	T5	YK
E4	R1F	TU	ZD8

2023 Get Schroeder Leaders							
2023 Total Entities Worked							294
2022 Total Entities Worked							286
2023 Entities Worked by SCDXC							282
2022 SCDXC Entities Worked							262
2023 Entities Worked by SCDXC Members in SoCal							280
2022 Entities Worked by SCDXC Members in SoCal							262
2023 ClubLog Leaders Entities Worked							294
2022 ClubLog Leaders Entities Worked							285
2023 SCDXC Leader (N0FW)							279
2022 ClubLog Leader (N0FW)							256
Rank	Call	Entities	Last Mo.	Last Yr	Leader	-Tot	-QQ
1	N0FW	279	2	17	0	3	-36
2	N6RV	278	5	35	-1	4	-35
3	K6RO	277	3	92	-2	5	-34
4	W6TK	275	3	24	-4	7	-32
5	N6WS	272	3	20	-7	10	-29
6	N6WT	271	3	12	-8	11	-28
7	N6RW	270	3	27	-9	12	-27
8	K6ND	266	8	6	-13	16	-23
9	NS6C	261	8	54	-18	21	-18
10	WA5VGI	256	8	34	-23	26	-13
11	W6DR	248	8	30	-31	34	-5
12	N6QQ	243	2	15	-36	39	0
13	W8GJK	238	5	27	-41	44	5
14	W6OU	237	0	14	-42	45	6
15	SM5GMZ	232	-1	33	-47	50	11
16	N6PM	226	9	13	-53	56	17
17	K6AFW	221	19	61	-58	61	22
18	N6DZH	201	8	17	-78	81	42
19	W8DX	200	19	10	-79	82	43
20	W6ZL	195	5	39	-84	87	48
21	K0XP	194	0	70	-85	88	49
22	K6NGO	181	3	181	-98	101	62
23	N6GP	176	0	30	-103	106	67
24	K7MY	157	1	73	-122	125	86
25	N6BV	157	6	55	-122	125	86
26	N6MG	149	7	136	-130	133	94
27	W6YLZ	146	3	-8	-133	136	97
28	NK6A	143	8	32	-136	139	100
29	N6PEQ	142	31	142	-137	140	101
30	WC2S	139	10	59	-140	143	104
31	KK6M	137	1	26	-142	145	106
32	WB6DJI	134	17	-23	-145	148	109
33	K6FG	117	0	-14	-162	165	126
34	KI6BTY	102	102	102	-177	180	141

SCDXC Get Schroeder Standings 2023															
Rank	Call	160	80	60	40	30	20	17	15	12	10	6	Total	Slots	YR
1	N0FW	66	##	64	133	132	216	213	236	227	235	35	279	1657	27
2	N6RV	0	46	21	164	145	208	156	213	165	200	46	278	1364	55
3	K6RO	4	47	51	171	169	240	243	249	236	232	34	277	1676	35
4	W6TK	5	46	35	151	156	215	235	239	220	215	0	275	1517	66
5	N6WS	5	46	27	105	83	139	140	174	184	174	57	272	1134	59
6	N6WT	8	21	5	65	71	129	87	124	104	119	23	271	756	9
7	N6RW	27	66	71	133	195	192	190	212	216	201	49	270	1552	65
8	K6ND	64	50	30	87	80	117	103	110	110	102	12	266	865	32
9	NS6C	4	13	0	35	56	89	83	90	102	109	24	261	605	66
10	WA5VGI	13	32	70	32	96	85	126	143	110	95	28	256	830	39
11	W6DR	15	51	89	125	116	156	130	144	145	158	20	248	1149	53
12	N6QQ	0	2	0	40	120	164	166	174	138	126	28	243	958	66
13	W8GJK	0	24	6	79	80	189	163	188	160	146	17	238	1052	16
14	W6OU	0	7	0	28	44	88	63	91	40	53	1	237	415	60
15	N6PM	5	25	13	68	81	97	90	113	104	137	7	226	740	29
16	K6AFW	1	2	0	133	159	139	129	156	140	163	7	221	1029	31
17	N6DZH	0	10	0	28	15	78	41	120	58	146	0	201	496	35
18	W8DX	0	0	0	7	11	102	75	77	55	79	4	200	410	66
19	W6ZL	0	1	0	35	18	110	31	144	34	150	6	195	529	31
20	K0XP	29	8	0	74	26	53	35	90	33	154	0	194	502	16
21	K6NGO	0	0	0	29	38	63	83	74	78	90	8	181	463	3
22	N6GP	0	8	0	25	8	64	13	68	101	95	12	176	394	35
23	K7MY	0	12	0	13	16	26	59	69	96	108	3	157	402	46
24	N6BV+6	8	18	31	29	34	39	40	48	49	57	7	157	360	32
25	N6MG	8	29	0	51	65	80	79	89	98	93	0	149	592	46
26	W6YLZ	0	9	9	7	47	55	58	55	47	30	23	146	340	35
27	NK6A	0	0	0	15	2	75	7	123	3	75	0	143	300	78
28	N6PEQ	1	1	0	13	11	46	16	64	39	84	0	142	275	37
29	WC2S	0	0	0	0	9	33	33	44	51	71	10	139	251	6
30	KK6M	0	18	0	36	0	43	0	119	0	70	0	137	286	44
31	WB6DJI	0	0	0	42	61	99	43	48	0	49	17	134	359	30
32	K6FG	8	19	1	7	52	39	61	20	47	44	16	117	314	67
33	KI6BTY	1	8	16	43	36	53	36	54	47	75	3	102	372	1
34	AA6DOW	0	1	0	6	11	47	42	35	17	22	7	94	188	36
35	W6SR	0	0	0	6	4	44	12	53	6	37	7	94	169	56
36	KR6C	1	0	0	2	0	10	0	24	8	75	0	90	120	45
37	K6DW	0	0	0	31	0	59	1	56	2	42	1	84	192	16
38	K6JW	0	4	0	5	12	25	21	15	19	7	1	71	109	64
39	K9TAD	0	0	0	11	0	42	0	31	0	22	1	68	107	16
40	W6FL	0	2	5	10	10	12	9	21	21	30	11	60	131	63
41	W6EY	0	0	0	0	1	15	24	10	9	12	1	52	72	23
42	NA6V	0	0	0	15	17	27	10	12	5	8	0	49	94	1
43	NZ6L	0	0	0	13	21	5	10	6	9	1	0	39	65	19
44	K6FOD	0	0	0	0	3	3	0	27	5	3	0	36	41	5
45	N6PCD	0	1	0	3	4	1	11	8	13	17	0	35	58	35
46	W6SW	0	0	0	0	0	7	0	0	0	1	0	8	8	44
47	W6KK	0	0	0	0	0	0	0	0	1	1	0	2	2	28

What Did We Really Work?

So we are nearing the end of a year of collecting data which fleshes out how many entities are available monthly from the West Coast. It actually is the lower limit to that number because other West Coast stations who did not submit their data possibly worked entities that are not in our data set. Another benefit from this study is the frequency which entities were active. For example, we expect to work Japan every month unless we get lazy. However working Oman, A4 and Qatar, A7 10 out of 12 months is truly amazing and unexpected and again, they may have been worked in the other 2 months by West Coast stations who did not participate. How about working VU4, Andaman's, and VU7 Lakshadweep in the same month which happens to be the last month, December!

All 282 entities worked by SCDXC this year are represented in this sparse data set. Only 5 club members submitted their monthly standings and they did it every month! Thank you guys!

This data will be folded into the February presentation in the form of graphs and simple tables that will reveal how amazing 2023 has been. For this month the tables were expanded to make viewing easier and amplify the enormity of the number of entities that were active. Good work to everyone!

Entity	Prefix	Total	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
		282	185	221	187	164	156	164	155	157	158	177	192	186
Sov. Military Order Of Malta	1A	1								1				
Spratly Islands	1S	1					1							
Monaco	3A	1			1					1	1	1		
Agalega and St. Brandon	3B6	1			1					1				
Mauritius Island	3B8	1		1	1		1	1			1	1	1	1
Rodriguez Island	3B9	1	1	1								1	1	1
Equatorial Guinea	3C	1	1	1		1		1	1	1				
Fiji	3D2	1	1	1	1		1		1	1	1	1	1	1
Rotuma	3D2-R	1							1	1	1			
Kingdom of Eswatini	3DA	1		1		1				1	1	1		
Tunisia	3V	1			1			1					1	1
Viet Nam	3W	1	1	1	1	1	1	1	1	1		1	1	1
Guinea	3X	1		1	1	1	1							
Bouvet Island	3Y-B	1		1										
Azerbaijan	4J	1	1	1	1		1	1				1	1	
Georgia	4L	1	1	1	1	1	1	1	1	1	1	1	1	1
Montenegro	4O	1	1	1	1			1			1	1		
Sri Lanka	4S	1	1	1		1	1		1		1			1
ITU Headquarters	4U1I	1									1	1		
United Nations HQ	4U1U	1		1						1	1		1	
Timor - Leste	4W	1		1	1	1	1	1	1		1	1	1	1
Israel	4X	1	1	1	1	1	1		1	1	1	1		
Libya	5A	1		1	1		1			1		1	1	
Cyprus	5B	1	1	1	1	1	1	1	1	1	1	1	1	1
Tanzania	5H	1		1		1		1					1	1
Madagascar	5R	1		1	1	1					1			1
Niger	5U	1					1	1						
Togo	5V	1		1										
Samoa	5W	1	1	1	1	1	1	1	1	1	1	1	1	1
Uganda	5X	1	1	1		1	1					1		

Entity	Prefix	Total 282	Jan 185	Feb 221	Mar 187	Apr 164	May 156	June 164	July 155	Aug 157	Sept 158	Oct 177	Nov 192	Dec 186
Kenya	5Z	1	1	1	1	1	1	1		1		1	1	
Senegal	6W	1	1	1									1	
Jamaica	6Y	1	1	1				1		1	1	1	1	1
Yemen	7O	1											1	1
Lesotho	7P	1		1										
Malawi	7Q	1	1	1	1	1	1	1	1	1	1		1	1
Algeria	7X	1	1	1	1		1	1		1		1		1
Barbados	8P	1	1	1	1	1	1	1	1	1	1		1	1
Maldives	8Q	1	1	1		1		1	1					1
Guyana	8R	1					1							
Croatia	9A	1	1	1	1	1	1	1	1	1	1	1	1	1
Ghana	9G	1		1		1		1	1	1	1			
Malta	9H	1	1	1	1	1	1	1	1	1	1	1	1	1
Zaire	9J	1	1	1							1	1		1
Kuwait	9K	1	1	1	1	1	1	1	1	1	1	1	1	1
Sierra Leone	9L	1												1
West Malaysia	9M2	1	1	1	1		1	1		1	1	1	1	1
East Malaysia	9M6	1	1	1	1	1	1		1	1		1	1	1
Nepal	9N	1	1	1	1		1	1	1					1
Zaire	9Q	1			1	1			1	1	1			
Burundi	9U	1		1	1									
Singapore	9V	1	1	1	1	1	1	1		1		1		
Rwanda	9X	1			1	1	1							
Trinidad & Tobago	9Y	1	1	1	1	1	1		1		1	1	1	1
Botswana	A2	1										1	1	
Tonga	A3	1						1						
Oman	A4	1	1	1		1	1	1	1		1	1	1	1
Bhutan	A5	1									1			
United Arab Emirates	A6	1	1	1	1	1	1		1	1	1	1	1	
Qatar	A7	1	1	1	1	1	1	1		1	1	1		
Bahrain	A9	1	1	1		1		1			1	1		1
Pakistan	AP	1	1	1	1	1	1	1			1		1	
Taiwan	BV	1	1	1	1	1			1		1	1	1	1
China	BY	1	1	1	1	1	1	1	1	1	1	1	1	1
Nauru	C2	1			1					1	1	1	1	1
Andorra	C3	1	1	1	1	1		1				1	1	1
The Gambia	C5	1	1	1	1									
Bahamas	C6	1	1	1	1	1		1	1	1	1	1	1	1
Mozambique	C9	1								1				
Chile	CE	1	1	1	1	1	1	1	1	1	1	1	1	1
Easter Island	CE0Y	1	1	1		1		1		1		1		
Antarctica	CE9	1	1	1	1			1		1		1	1	

Entity	Prefix	Total 282	Jan 185	Feb 221	Mar 187	Apr 164	May 156	June 164	July 155	Aug 157	Sept 158	Oct 177	Nov 192	Dec 186
Morocco	CN	1	1	1	1	1	1	1	1			1	1	1
Cuba	CO	1	1	1	1	1	1	1	1	1	1	1	1	1
Bolivia	CP	1	1	1			1	1		1	1		1	
Portugal	CT	1	1	1	1	1	1	1	1	1	1	1	1	1
Madeira Islands	CT3	1	1	1	1	1		1	1	1	1	1	1	1
Azores	CU	1	1	1	1	1	1		1	1	1	1	1	1
Uruguay	CX	1	1	1	1	1	1	1	1	1	1	1	1	1
Sable Island	CY0S	1			1	1								
Angola	D2	1	1	1	1			1					1	1
Cape Verde	D4	1	1	1	1						1	1	1	1
Comoros	D6	1		1	1									
Federal Republic of Germany	DL	1	1	1	1	1	1	1	1	1	1	1	1	1
Philippines	DU	1	1	1	1	1	1	1	1	1	1	1	1	1
North Cook Islands	E5-N	1	1	1			1		1		1	1	1	1
South Cook Islands	E5-S	1	1	1		1	1		1				1	
Niue	E6	1				1						1	1	
Bosnia-Herzegovina	E7	1	1	1	1	1	1	1	1	1		1	1	1
Spain	EA	1	1	1	1	1	1	1	1	1	1	1	1	1
Balearic Islands	EA6	1	1	1	1	1		1	1	1	1	1	1	1
Canary Islands	EA8	1	1	1	1	1	1	1	1	1	1	1	1	1
Ceuta & Melilla	EA9	1	1	1	1	1				1	1	1	1	1
Ireland	EI	1	1	1	1	1	1	1	1	1	1	1	1	1
Armenia	EK	1	1	1	1			1	1	1		1	1	1
Liberia	EL	1	1	1					1	1	1	1		1
Iran	EP	1		1		1	1					1		1
Moldova	ER	1	1	1	1	1		1	1	1		1	1	1
Estonia	ES	1	1	1	1	1		1	1	1	1	1	1	1
Ethiopia	ET	1	1	1					1	1		1		
Belarus	EW	1	1	1	1	1	1	1	1	1	1	1	1	1
Kyrgyzstan	EX	1	1	1	1	1	1	1		1	1	1		
Tajikistan	EY	1		1	1	1	1						1	1
France	F	1	1	1	1	1	1	1	1	1	1	1	1	1
Guadeloupe Island	FG	1	1	1	1		1	1	1	1	1	1	1	1
Mayotte	FH	1		1			1	1	1			1	1	
Saint Barthelemy	FJ	1								1				
New Caledonia	FK	1	1	1	1	1	1	1	1	1	1	1	1	1
Martinique	FM	1	1	1				1	1	1	1	1	1	1
French Polynesia	FO-F	1	1	1		1	1				1	1	1	
Marquesas Islands	FO-M	1			1	1		1					1	1
Saint Pierre & Miquelon	FP	1							1					
Reunion Island	FR	1	1	1	1	1	1		1	1	1	1	1	1
Saint Martin	FS	1	1	1		1			1	1			1	1

[illegible]

Entity	Prefix	Total 282	Jan 185	Feb 221	Mar 187	Apr 164	May 156	June 164	July 155	Aug 157	Sept 158	Oct 177	Nov 192	Dec 186
Gauantanamo Bay	KG4	1	1	1	1	1				1	1			1
Mariana Islands	KH0	1		1	1				1	1	1	1		1
Guam	KH2	1	1	1	1		1		1	1		1	1	1
Hawaii	KH6	1	1	1	1	1	1	1	1	1		1	1	1
American Samoa	KH8	1						1	1				1	
Swains Island	KH8-S	1										1		1
Alaska	KL7	1	1	1	1	1	1	1	1	1	1	1	1	1
US Virgin Islands	KP2	1	1	1	1		1	1		1	1	1	1	1
Puerto Rico	KP4	1	1	1	1	1	1	1	1	1	1	1	1	1
Norway	LA	1	1	1	1	1	1	1	1	1	1	1	1	1
Argentina	LU	1	1	1	1	1	1	1	1	1	1	1	1	1
Luxembourg	LX	1	1	1	1	1	1	1	1	1	1	1	1	1
Lithuania	LY	1	1	1	1	1	1	1	1	1	1	1	1	1
Bulgaria	LZ	1	1	1	1	1	1	1	1	1	1	1	1	1
Peru	OA	1	1	1	1	1	1	1	1	1	1	1	1	1
Lebanon	OD	1	1	1		1	1	1	1	1	1		1	
Austria	OE	1	1	1	1	1		1	1	1	1	1	1	1
Finland	OH	1	1	1	1	1	1	1	1	1	1	1	1	1
Aland Island	OH0	1		1	1			1	1	1	1	1	1	1
Market Reef	OJ0	1								1				
Czech Republic	OL	1	1	1	1	1	1	1	1	1	1	1	1	1
Slovakia	OM	1	1	1	1	1	1	1	1	1	1	1	1	1
Belgium	ON	1	1	1	1	1	1	1	1	1	1	1	1	1
Greenland	OX	1	1	1				1	1	1	1	1		1
Faroe Islands	OY	1	1	1	1		1				1	1		1
Denmark	OZ	1	1	1	1	1	1	1	1	1	1	1	1	1
Papua New Guinea	P2	1		1	1			1						
Aruba	P4	1	1	1	1		1	1	1			1	1	1
Netherlands	PA	1	1	1	1	1	1	1	1	1	1	1	1	1
Curacao	PJ2	1	1	1	1		1	1	1	1		1	1	1
Bonaire	PJ4	1	1	1	1	1	1		1	1	1		1	1
Saba & Saint Eustatius	PJ5	1				1			1				1	
Sint Maarten	PJ7	1			1	1							1	1
Brazil	PY	1	1	1	1	1	1	1	1	1	1	1	1	1
Fernando De Naronha	PY0F	1			1								1	
Trindade	PY0T	1											1	1
Suriname	PZ	1	1	1	1	1	1				1	1	1	1
Western Sahara	S0	1	1	1		1	1		1			1	1	
Bangladesh	S2	1										1	1	1
Slovenia	S5	1	1	1	1	1	1	1	1	1	1	1	1	1
Seychelles Islands	S7	1	1	1	1	1	1	1	1				1	
Sweden	SM	1	1	1	1	1		1	1	1	1	1	1	1

Entity	Prefix	Total 282	Jan 185	Feb 221	Mar 187	Apr 164	May 156	June 164	July 155	Aug 157	Sept 158	Oct 177	Nov 192	Dec 186
Poland	SP	1	1	1	1	1	1	1	1	1	1	1	1	1
Sudan	ST	1		1	1	1								
Egypt	SU	1		1	1		1	1						
Greece	SV	1	1	1	1	1	1	1	1	1	1	1	1	1
Dodecanese	SV5	1	1	1	1	1	1		1	1		1	1	
Crete	SV9	1	1	1	1	1	1	1	1	1	1	1	1	1
Tuvalu	T2	1									1	1	1	1
Western Kiribati	T30	1				1	1							
Centra IKiribati	T31	1						1						
Eastern Kiribati	T32	1										1		1
San Marino	T7	1	1	1		1	1		1	1		1		
Palau	T8	1	1	1			1	1			1			
Turkey	TA	1	1	1	1	1	1	1		1	1	1	1	1
Iceland	TF	1	1	1	1	1	1	1	1		1	1	1	1
Guatemala	TG	1	1	1	1	1		1	1	1		1	1	1
Costa Rica	TI	1	1	1	1	1	1	1	1	1	1	1	1	1
Cameroon	TJ	1											1	
Corsica	TK	1	1	1	1			1	1	1	1			1
Republic of the Congo	TN	1	1	1										
Gabon	TR	1	1	1				1						1
Chad	TT	1		1			1							
Benin	TY	1						1						
Mali	TZ	1	1	1	1									
European Russia	UA	1	1	1	1	1	1	1	1	1	1	1	1	1
Asiatic Russia	UA0	1	1	1	1	1	1	1	1	1	1	1	1	1
Kaliningrad	UA2	1	1	1	1	1	1	1		1	1	1	1	1
Uzbekistan	UJ	1	1	1	1	1	1			1	1	1		
Kazakhstan	UN	1	1	1	1	1	1	1	1	1	1	1	1	1
Ukraine	UT	1	1	1	1	1	1	1	1	1	1	1	1	1
Antigua & Barbuda	V2	1	1	1		1		1				1	1	1
Belize	V3	1	1	1	1	1	1	1	1	1	1	1	1	1
Saint Kitts & Nevis	V4	1	1	1				1			1		1	1
Namibia	V5	1	1	1	1		1	1		1	1		1	1
Micronesia	V6	1				1	1	1			1	1	1	1
Marshall Islands	V7	1			1		1	1	1	1		1	1	1
Brunei	V8	1	1	1			1	1	1	1				1
Canada	VE	1	1	1	1	1	1	1	1	1	1	1	1	1
Australia	VK	1	1	1	1	1	1	1	1	1	1	1	1	1
Cocos (Keeling) Islands	VK9C	1		1									1	1
Lord Howe Island	VK9L	1									1	1		
Norfolk Island	VK9-N	1	1	1	1	1			1	1	1			1
Willis Island	VK9-W	1		1	1	1								

Entity	Prefix	Total 282	Jan 185	Feb 221	Mar 187	Apr 164	May 156	June 164	July 155	Aug 157	Sept 158	Oct 177	Nov 192	Dec 186
Gauantanamo Bay	KG4	1	1	1	1	1				1	1			1
Mariana Islands	KH0	1		1	1				1	1	1	1		1
Guam	KH2	1	1	1	1		1		1	1		1	1	1
Hawaii	KH6	1	1	1	1	1	1	1	1	1		1	1	1
American Samoa	KH8	1						1	1				1	
Swains Island	KH8-S	1										1		1
Alaska	KL7	1	1	1	1	1	1	1	1	1	1	1	1	1
US Virgin Islands	KP2	1	1	1	1		1	1		1	1	1	1	1
Puerto Rico	KP4	1	1	1	1	1	1	1	1	1	1	1	1	1
Norway	LA	1	1	1	1	1	1	1	1	1	1	1	1	1
Argentina	LU	1	1	1	1	1	1	1	1	1	1	1	1	1
Luxembourg	LX	1	1	1	1	1	1	1	1	1	1	1	1	1
Lithuania	LY	1	1	1	1	1	1	1	1	1	1	1	1	1
Bulgaria	LZ	1	1	1	1	1	1	1	1	1	1	1	1	1
Peru	OA	1	1	1	1	1	1	1	1	1	1	1	1	1
Lebanon	OD	1	1	1		1	1	1	1	1	1		1	
Austria	OE	1	1	1	1	1		1	1	1	1	1	1	1
Finland	OH	1	1	1	1	1	1	1	1	1	1	1	1	1
Aland Island	OH0	1		1	1			1	1	1	1	1	1	1
Market Reef	OJ0	1								1				
Czech Republic	OL	1	1	1	1	1	1	1	1	1	1	1	1	1
Slovakia	OM	1	1	1	1	1	1	1	1	1	1	1	1	1
Belgium	ON	1	1	1	1	1	1	1	1	1	1	1	1	1
Greenland	OX	1	1	1				1	1	1	1	1		1
Faroe Islands	OY	1	1	1	1		1				1	1		1
Denmark	OZ	1	1	1	1	1	1	1	1	1	1	1	1	1
Papua New Guinea	P2	1		1	1			1						
Aruba	P4	1	1	1	1		1	1	1			1	1	1
Netherlands	PA	1	1	1	1	1	1	1	1	1	1	1	1	1
Curacao	PJ2	1	1	1	1		1	1	1	1		1	1	1
Bonaire	PJ4	1	1	1	1	1	1		1	1	1		1	1
Saba & Saint Eustatius	PJ5	1				1			1				1	
Sint Maarten	PJ7	1			1	1							1	1
Brazil	PY	1	1	1	1	1	1	1	1	1	1	1	1	1
Fernando De Naronha	PY0F	1			1								1	
Trindade	PY0T	1											1	1
Suriname	PZ	1	1	1	1	1	1				1	1	1	1
Western Sahara	S0	1	1	1		1	1		1			1	1	
Bangladesh	S2	1										1	1	1
Slovenia	S5	1	1	1	1	1	1	1	1	1	1	1	1	1
Seychelles Islands	S7	1	1	1	1	1	1	1	1				1	
Sweden	SM	1	1	1	1	1		1	1	1	1	1	1	1

Who's on 6?

This month we saw two new entities for the year, 4W, East Timor worked by N6WS and K6ND and FO/M, Marquesas worked by N6WS. Many were witness to the opening and many copied nothing while stations from San Diego to Northern California snagged these two entities. This is a perfect example of very specific spot propagation.

There have been South Pacific openings throughout the month as well as South America. Many members picked up a few new ones!

[illegible]

Deleted ARRL DXCC Entities

This month we look at deleted entities #36 & #37 Papua Territory and Territory of New Guinea.

Prefix	Entity	Cont	Zone	UTC	Location	Prefix
			ITU	CQ	+/- Lat Long	
KS4	Swan Is	NA	11	7	-6 17N 84W	
KZ5	Canal Zone	NA	11	7	-5 9N 80W	
OK	Czechoslovakia	EU	28	15	1 50N 15E	
P2	Papua Terr	OC	51	28	10 10S 147E	VK9
P2	Terr New Guinea	OC	51	28	10 10S 147E	VK9
PJ2	Neth Antilles	SA	11	9	-4 12N 69W	PJ4, PJ9
PJ5	St Maarten, Saba, St Eus	NA	11	8	-4 18N 63W	PJ6-8
PK1	Java	OC	54	28	7.5 6S 107E	PK2-3

Papua Territory and Territory of New Guinea

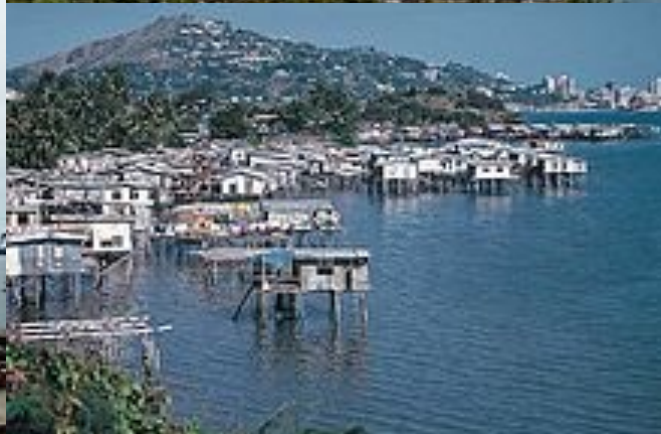
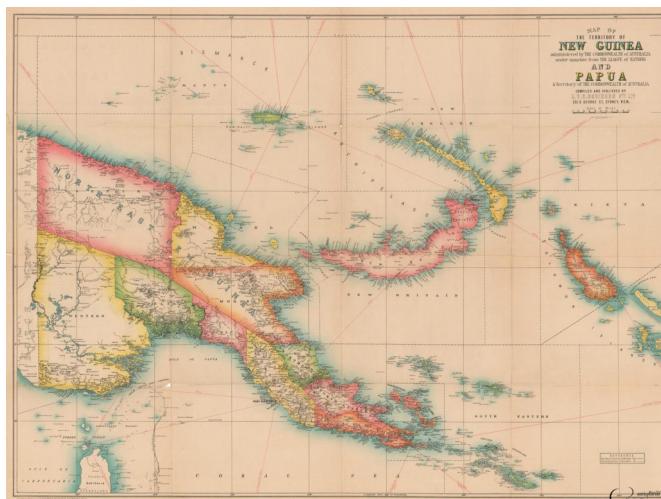
Papua was discovered by the Spanish and Portuguese in the early 1500s. There is evidence that the island was inhabited tens of thousands of years earlier. In 1545 a Spaniard, Inigo Ortiz de Retez named it New Guinea due to the similarity between the Africans living in New Guinea and the native population of the island who are Melanesian. They called it Papua.

Australia annexed the island preventing a German claim. England declined the act and, in 1884 declares, it a protectorate. In 1888 Britain annexed the southeastern half of New Guinea and surrounding islands. They named it British New Guinea. In 1903 it was subsequently transferred to Australia who named it Papua Territory.

Northeastern New Guinea was controlled by the German government and all of Western New Guinea was under the control of the Dutch, Dutch New Guinea, as well as most of what is today Indonesia. In WWI Australia expelled the Germans and transferred German New Guinea naming it Territory of New Guinea.

In WWII the Japanese all of Dutch New Guinea and former German New Guinea. They failed at occupying Papua Territory which was the first defeat of the Japanese in WWII. In 1949 the Territory of New Guinea and Papua Territory came under one administration. Finally it was unified and named Papua New Guinea. The region became the Independent State of Papua New Guinea.

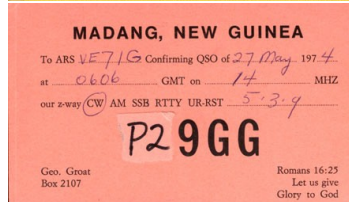
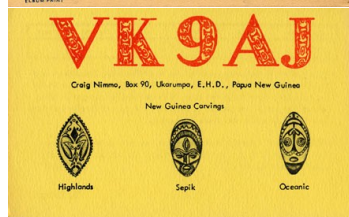
The Western portion of New Guinea is part of Indonesia and called West Irian.



Amateur Radio Operations

<u>Territory of New Guinea</u>		<u>Papua Territory</u>	
VK9DK	1938	VK9RM	1939
VK9DM	1938	VK4OS	1946
VK9VG	1938	VK4BI	1947
VK9XX	1939	VK9BI	1947
W9HCJ/VK9	1946	VK9NK	1947
KG6AV/VK9	1947	VK9AB	1950
KG6AW/VK9	1947	VK9GW	1952
KG6AW/VK9	1948	VK9XK	1952
W3EKK/VK9	1948	VK9XK	1952
VK9JC	1950	VK9DB	1956
VK9GB	1951	VK9TW	1956
VK9YT	1951	VK9TW	1956
VK9WZ	1953	VK9CK	1957
VK9YY	1953	VK9RO	1959
VK9YY	1953	VK9BM	1961
VK9AU	1954	VK9AG	1965
VK9BW	1955	VK9PL	1965
VK9WP	1956	VK9CJ	1966
VK9AA	1958	VK9CJ	1966
VK9BW	1958	VK9DJ	1966
VK9TK	1960	VK9BS	1967
VK9NT	1963	VK9DJ	1967
VK9VM	1965	VK9TB	1969
VK9AG	1966	VK9MM	1970
VK9JK	1966	VK9HB	1971
VK9MK	1966	VK9LV	1971
VK9GN	1967	VK9BO	1972
VK9GZ	1967	VK9DM	1972
VK9KS	1967	VK9KA	1972
VK9WD	1967	VK9KE	1972
VK9KS	1968	P29FV	1974
VK9OM	1968		
VK3UV/VK9	1971		
VK9FH	1971		
VK9JK	1971		
VK9JV	1971		
VK9AJ	1972		
VK9UC	1973		
P29GG	1974		

New Guinea was fertile ground for missionary activity. Many indigenous groups on the interior at that time had never seen someone from the modern world. There were many dialects on Papua. Wycliffe Bible Translators brought written language many tribes. Most of tribes engaged in the practice of payback. If one was accidentally injured or killed the one who did would be paid the same consequence. This proved to be very touchy.



Gene Arnold Nurkka

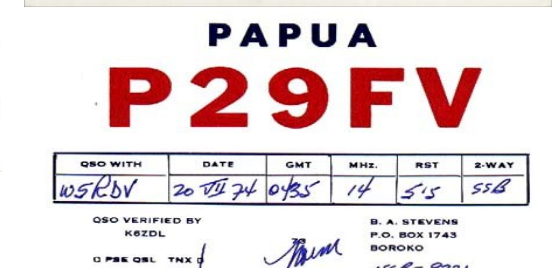
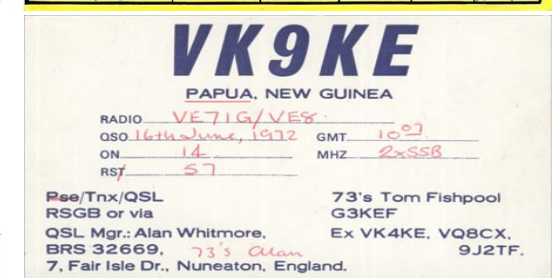
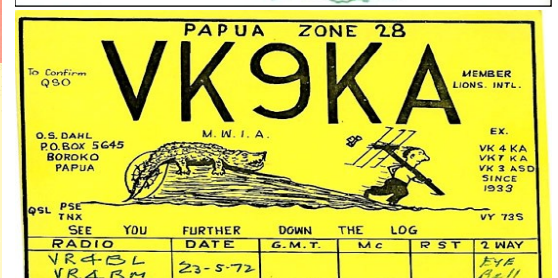
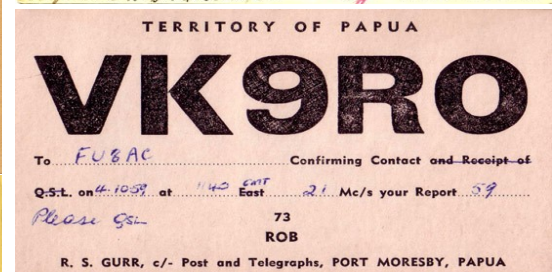
9/11/1937—4/10/2020

(VK9GN, NOGN, VK9GN, AX9GN, W0IHW)
Gene was first licensed with the call sign W0IHW at age 14. He graduated with a BSEE from the University of Minnesota and worked for the CDC. He married Janet and went on the mission field for Wycliffe Bible Translators until 1962. In 1996 he became a licensed minister.



Oliver McCutcheon

Oliver was the president of the Coral Sean Union Mission 7th Day Adventist Church



Looking for DX in Odd Other Places

Bill Shell, N6WS

1 BV	Taiwan
2 BY	China
3 CE	Chile
4 CT3	Madeira Islands
5 DL	Germany
6 E7	Bosnia-Herzegovina
7 EA	Spain
8 EA6	Balearic Islands
9 EA8	Canary Islands
10 EI	Ireland
11 ES	Estonia
12 F	France
13 FG	Guadeloupe
14 G	England
15 GI	Northern Ireland
16 GM	Scotland
17 HA	Hungary
18 HC	Ecuador
19 HL	Republic of Korea
20 HR	Honduras
21 I	Italy
22 JA	Japan
23 K	United States
24 KH6	Hawaii
25 KL7	Alaska
26 KP4	Puerto Rico
27 LA	Norway
28 LU	Argentina
29 LY	Lithuania
30 OA	Peru
31 OE	Austria
32 OL	Czech Republic
33 OZ	Denmark
34 PA	Netherlands
35 PY	Brazil
36 SM	Sweden
37 SP	Poland
38 SV	Greece
39 UA	European Russia
40 UA0	Asiatic Russia
41 UT	Ukraine
42 VE	Canada
43 VK	Australia
44 XE	Mexico
45 YO	Romania
46 ZL	New Zealand

I am fairly active in HF DXing and EME DXing, so I thought I would try something new. I was reading about a digital satellite that was in the a medium high orbit, and that intrigued me. I had operated the low Earth orbiting OSCAR and RS satellites, but a satellite with a medium orbit would provide the opportunity to work some DX. So, I thought I would try it.

The satellite I was reading about was called Greencube. It was launched in July 2022, and is designated IO-117. It is a 3U cubesat containing a micro plant experiment. Onboard is also a packet digi-peater in the 70cm amateur band. That is what really caught my interest. I already have all the equipment I need to operate through the satellite in my EME station. As it turned out, my EME antennas, two 50-element M2 crossed Yagis, are more than adequate, and the 0.4dB NF antenna mounted preamp allows copy of the satellite from horizon to horizon. To maintain communications, throughout the satellite passes I have to throttle back my output power to 5 to 10 Watts, depending on the slant-range and local obstacles in the path.



I have only been on IO-117 for a week, but I have been able to work 46 Countries, 47 States, 24 CQ Zones, all continents, 277 grids in 534 QSOs. It has been pretty easy to work most of the stations. Some counties with very short mutual views of the satellite like YO and UT don't leave a very long window of opportunity, but I have been able to work them very easily.

One aspect of operating I have become very careful about is not to run excessive power. I maintain fairly low power so that not all of my transmissions actually repeated through the satellite. I read on the Facebook IO-117 group one user, VK2RS, was using an IC-9700 and an ATAS-120 vertical antenna. I hadn't considered the possibility of using a vertical antenna for the satellite work. On the next pass I tried my Diamond X-50 vertical antenna. Copying the satellite without the antenna mounted preamp was a bit more difficult, after attaining an elevation of about 10 degrees and a slant-range of less than 5,000km, I was able to be repeated through the satellite and have fairly solid copy.

Okay, so what does it take to operate through Greencube IO-117.

- Transceiver capable of USB or Data-U modes on 435.310 MHz
- An antenna, preferably with some gain
Some use handheld Yagi antennas used for T-Hunts
- Packet modem software, you no longer need a TNC for packet
http://uz7.ho.ua/modem_beta/greentnc.zip
- Greencube Terminal Program and Setup Information
<https://moonbounce.dk/hamradio/greencube-terminal-program.html>
- Knowledge of some Dos and Don'ts on the Satellite
<https://www.florian-wolters.de/posts/donts-on-greencube/>
- YouTube videos on IO-117
<https://www.youtube.com/watch?v=WP9fFZceHf0>
<https://www.youtube.com/watch?v=PE8wMq5FseE>
- IO-117 Orbital predictions
<https://sat.fq8oj.com/sat.php?s=IO-117>
- Satellite tracking program
<http://gpredict.oz9aec.net/index.php>

The normal passes from horizon to horizon last a little over an hour, giving you plenty of time work plenty of stations. The Greencube Terminal program by Carsten Groen, OZ9AAR, is user friendly program that advises you of new contacts and new grids. Another aspect I like about the IO-117 is that most user confirm contacts using Logbook of the World.

I hope you enjoy operating through IO-117 as much as I have over the past week.

2024 INTERNATIONAL DX CONVENTION

A Great Time with Great Friends

Registration is Open!!!

April 12th - 14th 2024

So far we have over 50 registered and it is still 2023!

Gayle reports we have many DXers willing to present at the convention.

Here is a sample of the candidates:

W8S -	Swains Island
TX5S -	Clipperton Island
7O8AD -	Yemen
CB0ZA -	Juan Fernandez
KH8RRC -	American Samoa
H40WA -	Temotu
PR0T -	Trindade
H44WA -	Solomon Islands
DXpeditioning on the Magnet Ham Yacht	
Remote DXing	
The latest in SDR Technology	
Solar Weather	



How about another Bouvet DXpedition presentation... or two!

Elecraft has graciously provided a K4D and Amplifier for our special event station! Not only that, they have given us a K4D with tuner for one of our big prizes! Thank you Eric and company!!! Thank you John, K6MM, for helping us! Paul, N6PSE is working with Flex for another super prize!

Paul Ewing, N6PSE, is looking for presenters for the DX University:

I am seeking very knowledgeable DXers/Contesters to present as a part of DX University.

Topics of interest include:

Antennas for the small, medium and big station owner.

Station automation-Integrating PC/Mac/Logging, Node Red, Rasberry Pi

Operating secrets for getting in, making the Q and getting out quick.

DXing on 6 meters /160 meters. What can we learn from these magic bands.

Any topics near and dear to your heart that you would like to present?

Please email me direct if you have any questions or interest in presenting.

Paul N6PSE - pauln6pse@gmail.com



Resource Page

Useful Sites

N0HR DXpedition Map
www.n0hr.com/wk34/

The DX Zone
www.dxzone.com/catalog/DX_Resources/

The Daily DX
www.dailydx.com/

Announced DX Ops
www.ng3k.com/misc/adxo.html

DXing.info
www.dxing.info/dxpeditions/

DX 425 News
www.425dxn.org/dxped/

DX Italia DX News
www.marioi2mqp.it

DH9SB Weekly DX Calendar
<http://www.dx-info.de>

Southern California Contest Club
<http://www.socalcontestclub.org/>

Sixth District QSL Bureau
www.QSLBureau.org

Propagation

We are slowly recovering from a dip in solar radiation. Furthermore, there is one huge sunspot that is kicking up a lot of storms and CMEs. Nevertheless the bands have been great! To work VU4 and VU7 on 10 meters and up has been a real treat... and he was loud with his verticals. The CQWW CW contest started off with a bang and then bang! ...The sun had its say! It wasn't long before conditions settled and the contest continued. When the storm first hit signals got louder and watery!

The peak of this cycle is still ahead in 2024. Get on the air!

Strongest Cycle Ever?
Biggest Cycle?

Understanding Indices - K9LA

What to Expect During the Rising Years of Solar Cycle 25 - YouTube

The Termination Event | Space-weather.com

ARRL VE Exam Sessions

To find an ARRL exam sessions in your area go to the website:

<http://www.arrl.org/find-an-amateur-radio-license-exam-session>

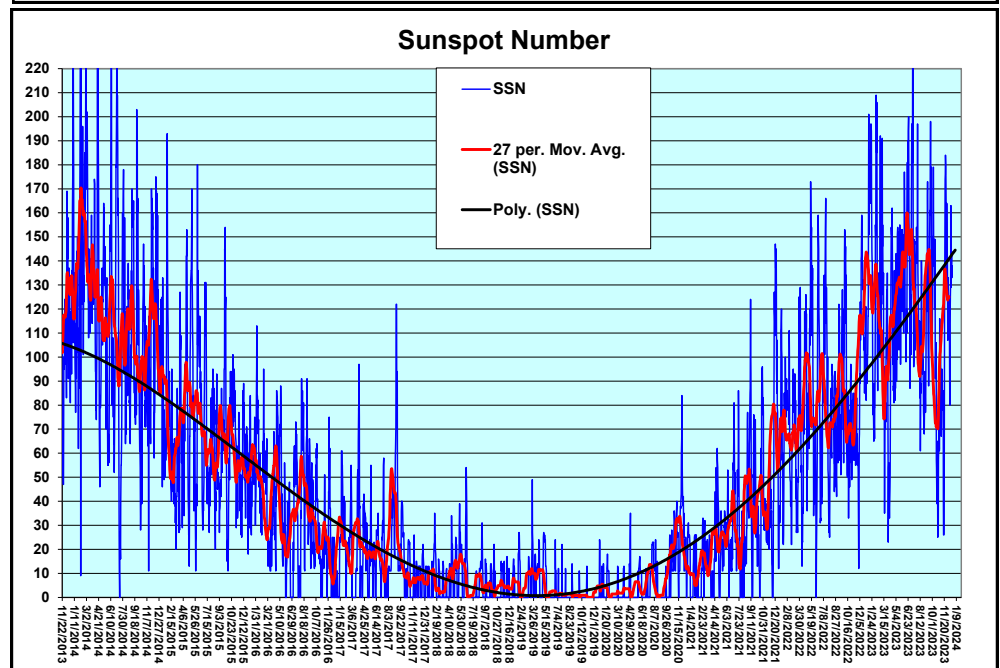
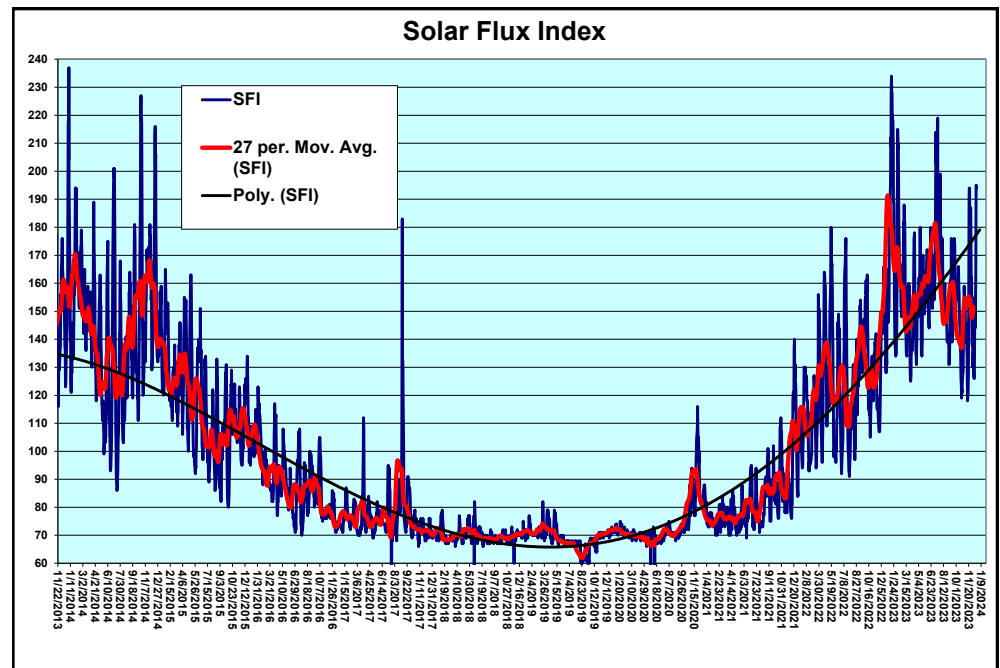
Club and Conduct Sites

Officer Guidelines

http://www.scdxc.org/download/Officer_Guidelines.pdf

DX Code of Conduct

<http://www.dx-code.org/>





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Anaheim	ana@hamradio.com	1-714-533-7373	1-800-854-6046	1-714-533-9485
San Diego	sd@hamradio.com	1-858-560-4900	1-800-854-6046	1-858-560-1705

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